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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/700,298

Harri Hurme

3502-1095

3482

466 7590 09/13/2007

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EXAMINER

DEB, ANJAN K

ART UNIT

PAPER NUMBER

2858

MAIL DATE

DELIVERY MODE

09/13/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/700,298

Applicant(s)

HURME, HARRI

Examiner

Anjan K. Deb

Art Unit

2858

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 July 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-8 and 10 is/are rejected.
- 7) ☒ Claim(s) 5 and 9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 July 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4, 6-8, 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Puthuff (US 3,604,947).

Re claims 1 and 7, Puthuff discloses electric device and method for detecting the presence of a signal $f(t)$ of a certain frequency in a line connection (11,18), characterized in that it comprises at least three energy-storing components (12) connected in parallel to said line connection, switching means 14 (FETs) for making a connection selectively (sequential operation) from each energy storing component to a certain reference means 20 for controlling said switching means at a predetermined frequency, and means (Output) for measuring a certain quantity comparable to the energy stored from each energy-storing component (Fig. 5, 22).

Re claims 2 and 8, Puthuff discloses said switching means 14 are arranged to make a connection from each energy-storing component to the reference once during the cycle time of said signal to be detected (field-effect transistor of each capacitor stage is switched on during the same quarter cycle of each cycle).

Re claim 3, Puthuff discloses said energy-storing components are capacitances 12 whereby said means (Output) for measuring the quantity comparable to the energy stored comprise means for measuring the voltage difference between capacitances, and said reference is a certain standard potential 20 (Fig. 5,22).

Re claim 4, Puthuff disclosed method and circuit for detecting frequency components of a signal comprising first, second, third, and fourth storage capacitor 12 connected in parallel to input signal line 11,18 and each capacitor is connected by switch 14 (FETs) for selective switching by control circuit 22 (Fig. 5,22).

Re claims 6 and 10, Puthuff discloses post detection filtering (Notch filter)(Fig. 24).

Response to Arguments

3. Applicant's arguments with respect to claims 1-4, 6-8 and 10 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

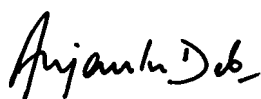
4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yeh (US 2004/0192246 A1) disclosed input signal measuring device comprising at least three energy-storing components (capacitors) connected in parallel with line connection 21 (Fig. 5).

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Terreault (US 6,495,998 B1) signal measuring device comprising at least three energy-storing components (inductors) connected in parallel with line connection 18 (Fig. 1b).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is 571-272-2228. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew H. Hirshfeld can be reached at (571) 272-2168.



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9/4/07